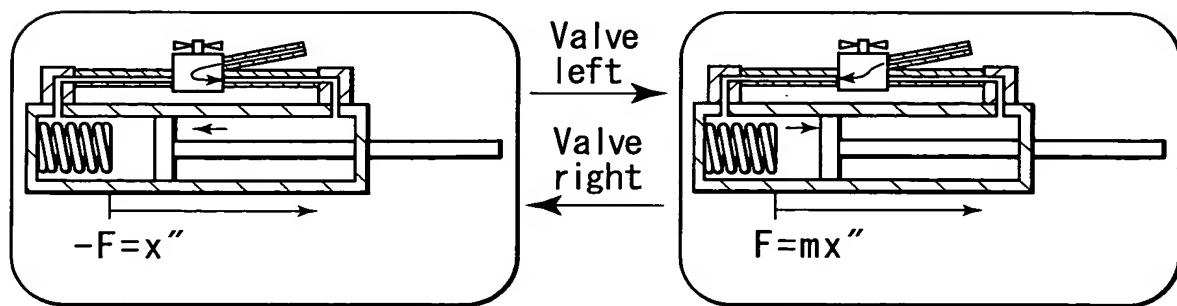
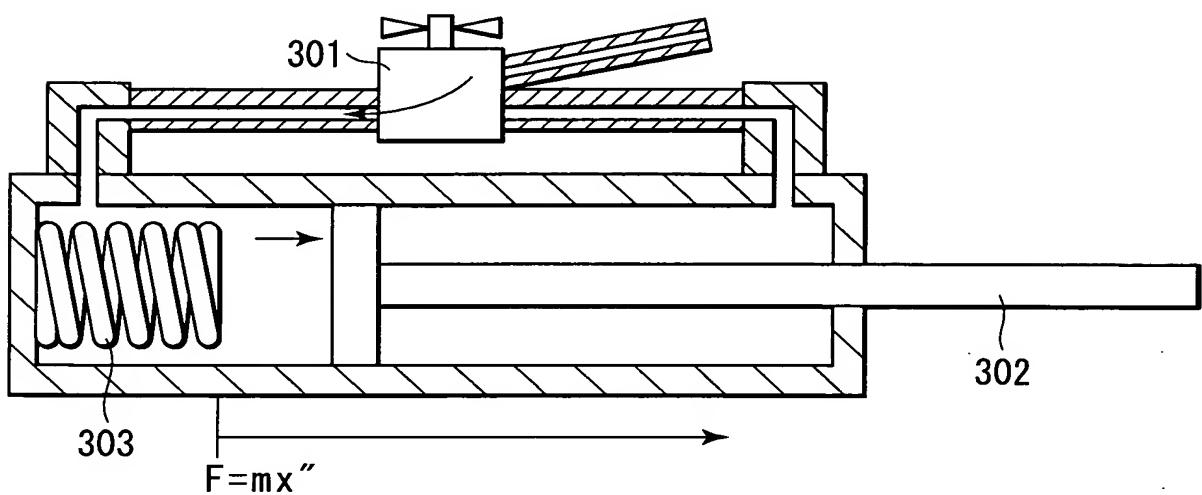
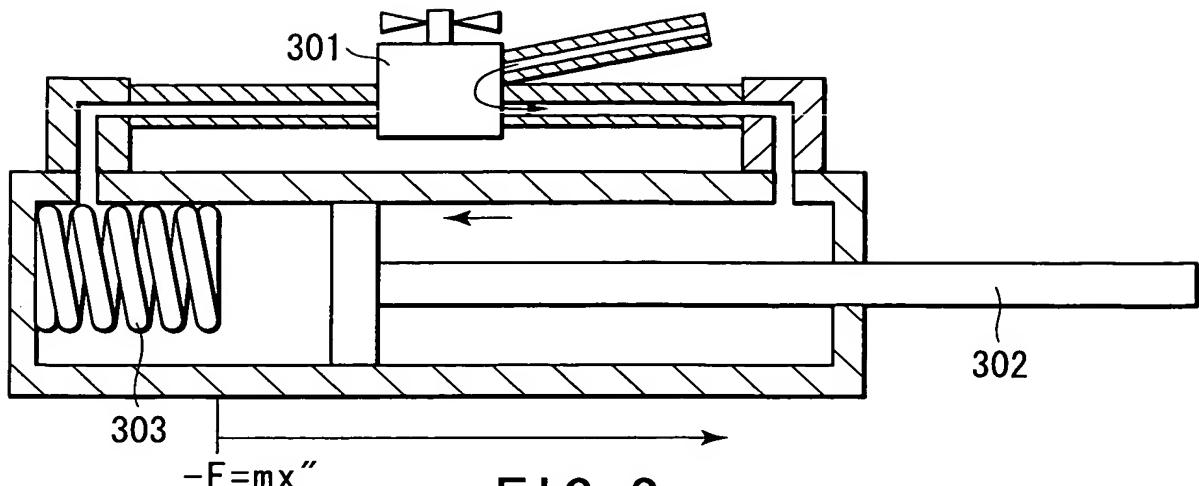


FIG. 1



```
L1 #define m 1
L2 #define f 100
L3 Right, ev1
L3 ev2 // Initial state of valve
L4 wait 50 do Left, // Turn valve to right when time = 50.
L5 // Conditional formula when valve faces right
L6 always if Left then do always f = m * x" eq1
L6 ev3 watching Right,
L7 // Conditional formula when valve faces left
L8 always if Right then do always -f = m * x" eq2
L9 sample (X), ev4
L10 x = 0, x' = 0 // Initial state of variable x
```

FIG. 5

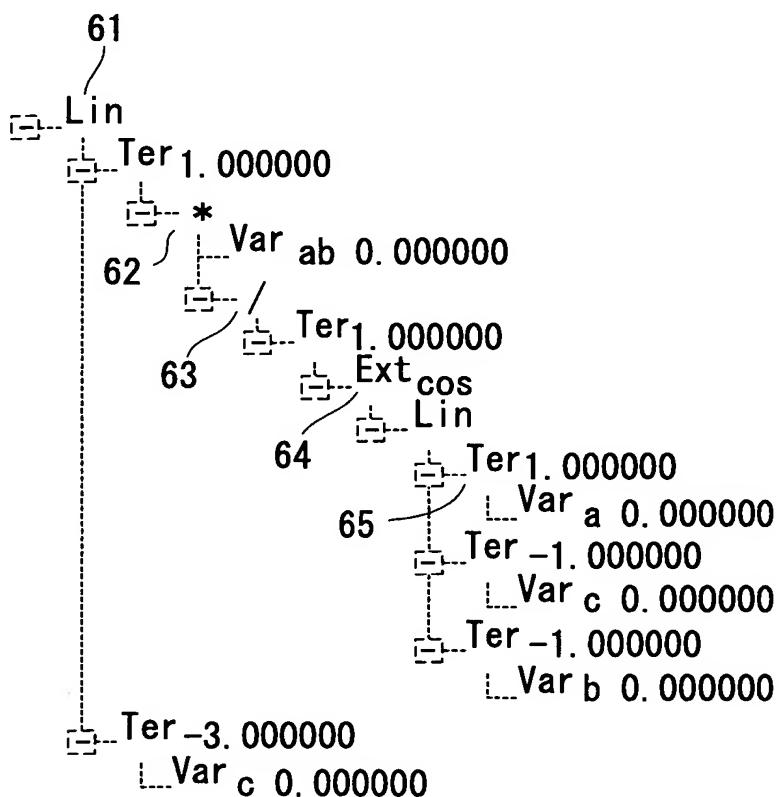


FIG. 6

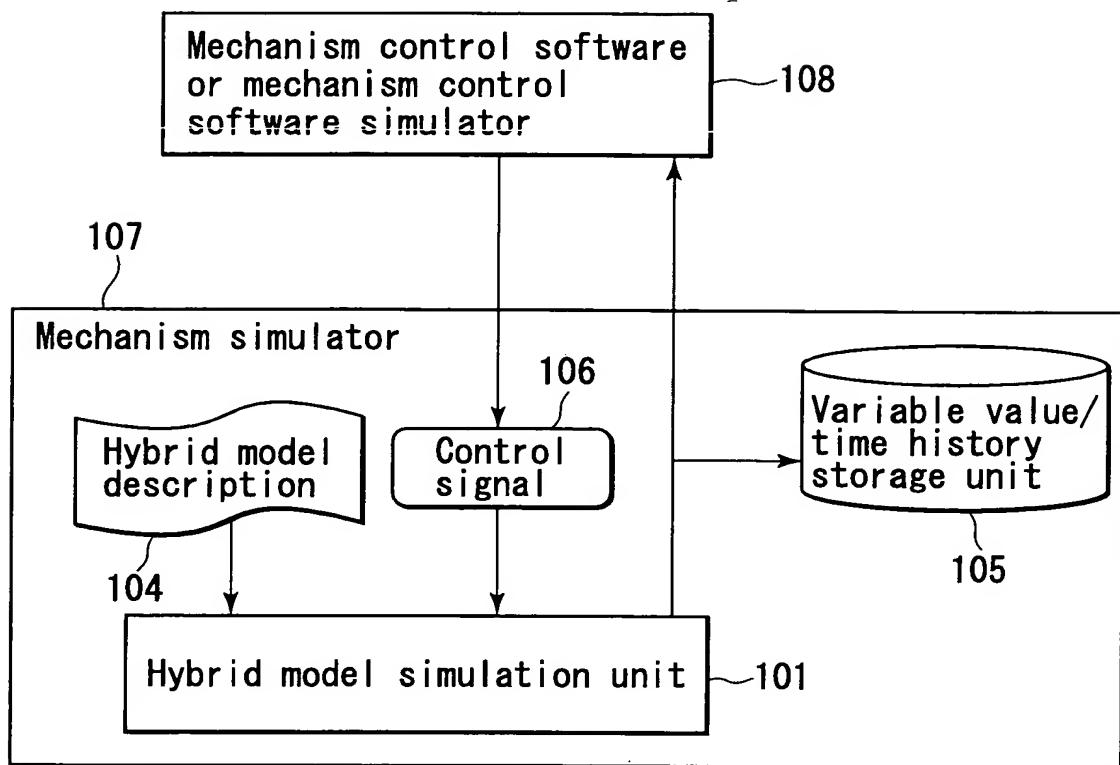


FIG. 7

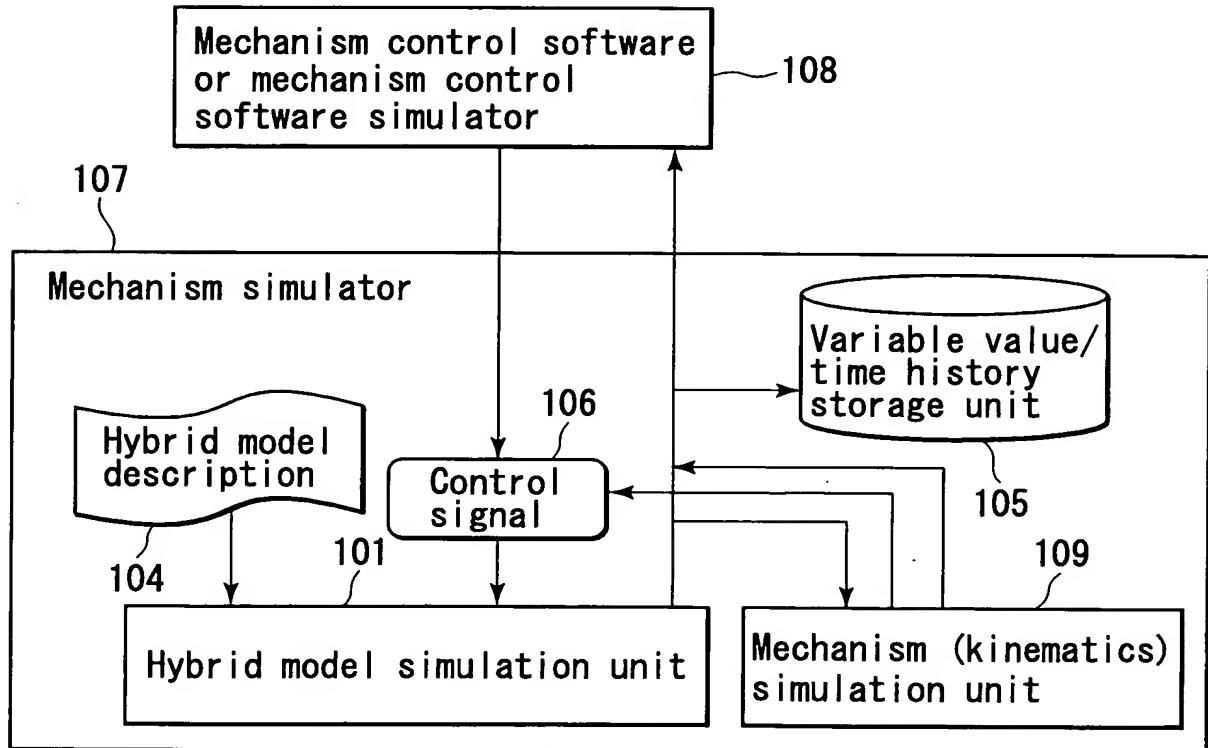


FIG. 8

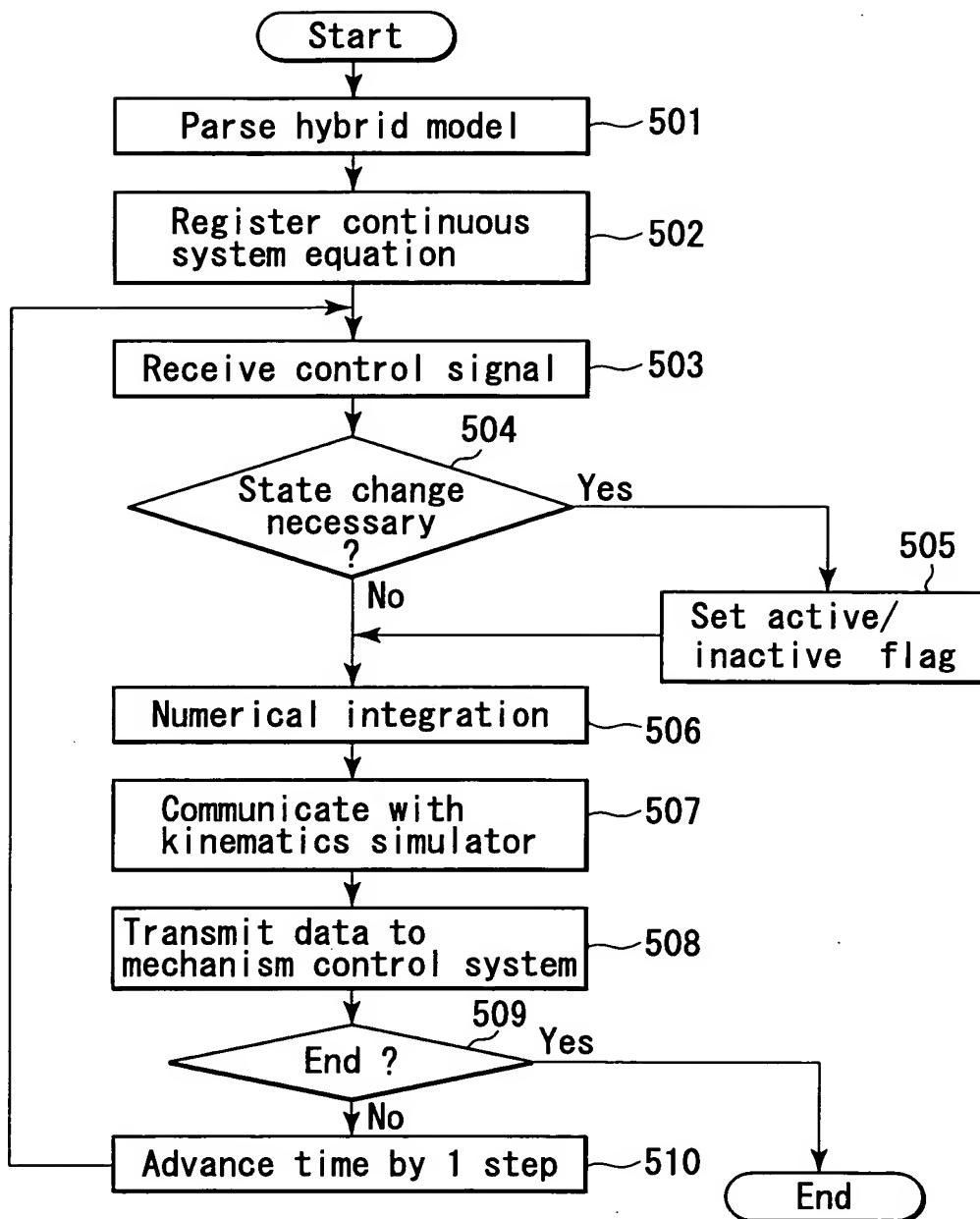


FIG. 9

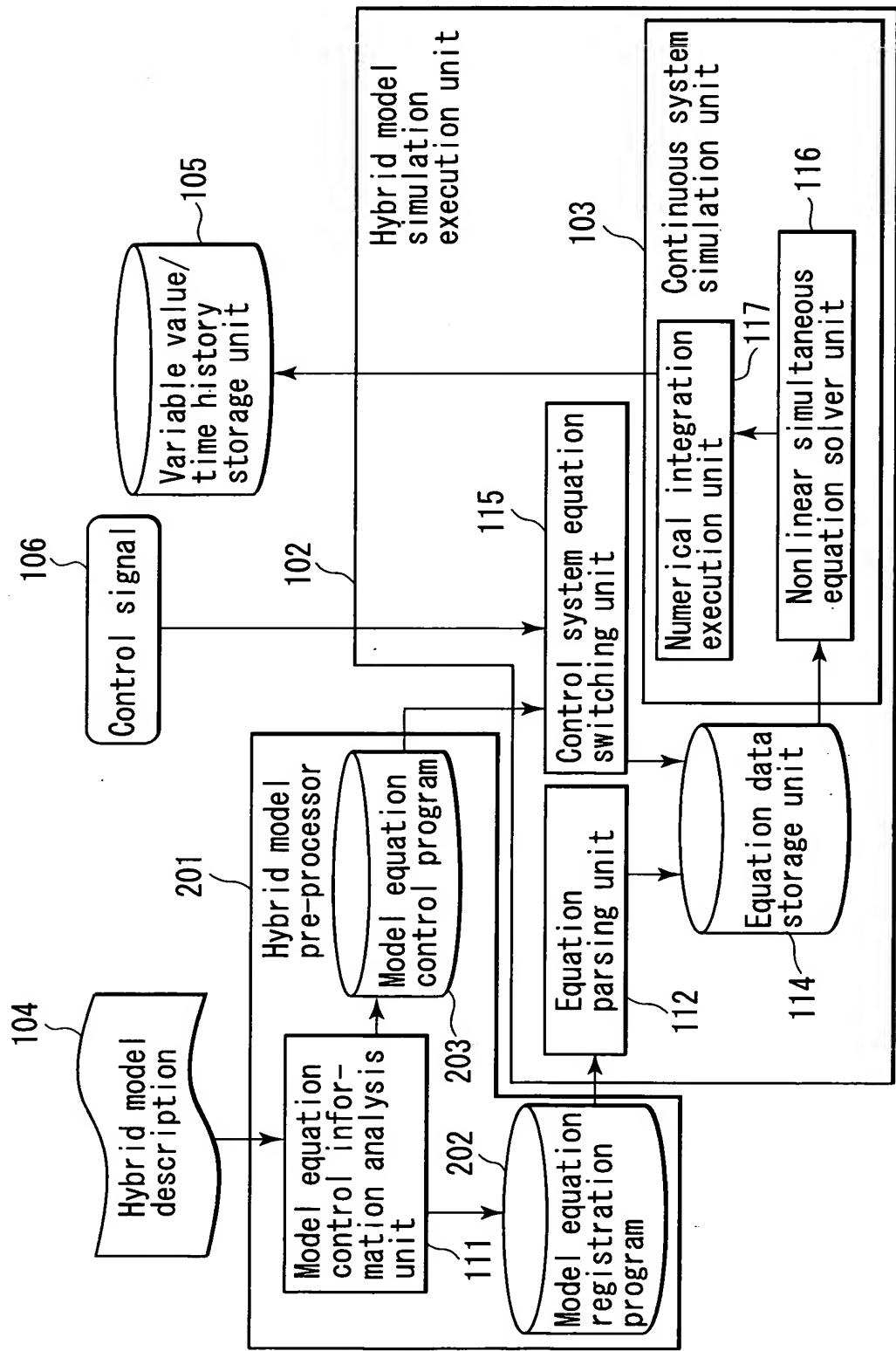


FIG. 10